Depth 6	Contents 7	Reference to last Measurement 8
5560		
38239		
25578		
9560		
956		
32109		
2493		
55495=00		

Work order No:- FB/BTP/BBMP/KRIDL/W.O/308/2012-13 dt: 28.02.2013
Est. cost: 50.00 Lakh

Job code No:- 008-13-000088

Agg. No:- 299/12-13 Dt: 28.02.2013

M.A.R. 57 (Rule 116)

Measurement Book No. A/11 193132

Serial No. 11 And Final Bill

Name of work Improvement of road and drain at Devinagara, maheshwara Block - Anuco layout and Kodigehalli in ward no. 08 From To

Name of Contractor of nature of Agency

Date of commencement of work Area: Kodigehalli sub division,

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Agly:- KRIDL Supdt.						
	1) Earthwork excavation by manual means in ordinary soil including average lead upto 50 mtrs throw upto 1.5 mtrs and depth upto 0.5 mtr. excavated surface levelled and sides neatly dressed as per specification.						
	Qty B/F from P.No. 193177/2 of this MB.						
	Total Qty =					385.93 Cu.m	
	Already paid Qty =					305.73 Cu.m	
	yet to be paid =					80.20 Cu.m	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		80.20 m^3 @ Rs. 81.00/cum				Rs.	6496.20
(2)	Rewing B.S slab of drain and stacking						
		Total Qty	—			3650.40 m^2	
		Already paid Qty	—			2883.80 m^2	
	Qty. B/F from P.NO - 193178 This MB	yet to be Paid Qty	—			= 766.60 m^2	
		@ Rs 44.47/sqm				Rs	34090.70
(3)	Refixing stone slabs of drain and pointing in cm (1:3)						
		Total Qty	—			2904.85 2906.00 m^2	
		Already paid Qty	—			2306.40	
	Qty B/F from P.NO = 193178/2 This MB	yet to be Paid	—			598.65 m^2	
		@ Rs 63.00/sqm				Rs	37714.95

Serial No.....

Name of work.....

Name of Contractor of nature o

Date of commencement of wor

Date	Full description, etc, of w
1	2
(4)	Earthwork in drain ... 1.5 m (selected borrow pits) Specification
	Qty B/F. from P.
(5)	Dismantling

OK

Depth 6	Contents 7	Reference to last Measurement 8
	Rs.	6496.20
and	stacking	
—	3650.40 m²	
—	2883.80 m²	
Paid qty	= 766.60 m²	
	Rs	34090.70
and	Painting in cm (1:3)	
	2904.85	
—	2904.00 m²	
qty —	2306.40	
—	598.65 m²	
	Rs	37714.95

M.A.R. 57 (Rule 116)

Measurement Book No. A/11 193133

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
(4)	Earthwork excation and forming in embankment by manual means in ordinary soil with initial lead upto 15 m. and lift upto 1.5 m (when earth is taken from bank cutting or from borrow pits) including leveling & dressing complete as per specification						
	= Total qty					1580.00 m³	
	Already paid qty					1252.00 m³	
						328.00 m³	
	qty B/F. from P.No:- 193179 this B.B.						
	qty. 112.34 cm					Rs.	36840.96
(5)	Dismantling cement concrete flooring					or plain cement	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	concrete cube including removing and carrying the debris to distance upto 200m (within average lead lead of 15 km)						
		Total qty				112.75 m²	
		Already paid qty				96.50 m²	
		yet to be paid qty				= 16.25 m²	
	qty. B/F from P.no - 194	3	79/2	this MB		16.25 m²	
		qty	38.88/sqm			R. 631.80	
(6)	providing granite slabs of selected quality neatly dressed including fixing using and rubbing in cement mortar (1:6) etc. complete.						
		Total qty				730.08 m²	
		Already paid qty				584.30 m²	
		yet to be paid qty				= 145.78 m²	

Serial No.....

Name of work.....

Name of Contractor of nature of Agency

Date of commencement of work.....

Date	Full description, etc, of work
1	2
	qty B/F from P.no -
(7)	providing and laying with OPC cement @ graded granite met mixed machine mixed 15 cm thick cast specification

	Contents 7	Reference to last Measurement 8
	...supply the labour ...thickness of 15 cm)	
	112.75 m²	
	96.50 m²	
	= 16.25 m²	
	Rs. 631.80	
	...ready supply abroad ...duly sizing using	
	730.08 m²	
	584.30 m²	
	= 145.78 m²	

M.A.R. 57 (Rule 116)

Measurement Book

No. A/11 193134

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Qty B/F. from P.No - 193	180	Thick	=	145.78 m²		
					@ Rs. 315.36/Sqm	Rs.	45973.18
(7)	providing and laying in position plain cement concrete of mix M7.5 with OPC cement @ 180 kg. per cum. with common / local graded granite metal coarse aggregate @ 0.8 cum. machine mixed, machine mixed cement laid in layers not exceeding 15 cm. thick and then of machine compacted as per specification						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		Total Qty				59.65 cum	
		Already Paid Qty				Nil	
	Qty B/F from P.No = 193180/-	Now Payable Qty =				59.65 cum	
						@ Rs. 3884.70 /Cum Rs. 231725.93	
(8)	Providing and laying in position reinforced cement concrete M20 mix 1:1.5:3 with 20 mm down size graded granite metal. By machine mixed, cement laid in layers not exceeding 15 cm thick, including steel, plaster, cement, pcc, ascetrete, pillars, walls (any thickness) including steel, pillars, posts, struts, beams, string & facing, coping, parapet coping bed blocks, anchor blocks, etc including cost of all						

Serial No.....

Name of work.....

Name of Contractor of nature of Agency...

Date of commencement of work.....

Date	Full description, etc, of work	Nu
1	2	
	material, labour	To
	Qty B/F from P.No =	61
(9)	Providing and	

T BOOK

ions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
		59.65 m³	
		Nil	
		Paid qty = 59.65 m³	
		Rs. 3884.70/cum	Rs. 231725.93
		reinforced cc curb Concrete	
		ground level surface graded	
		level. Concrete laid in layers	
		including shuttering. Plaster, Labour	
		(any thickness) including all	
		ing & lacing, coping, parapet	
		ete. Rate including cost of all	

M.A.R. 57 (Rule 116)

Measurement Book No. A/11 193135

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	materials, labour, hire of machinery etc complete						
	Total Qty					61.50 m³	
	Already paid qty					Nil	
	Yet to be paid qty					61.50 m³	
	Qty B/F. from P.No = 193131/2 from this MB.						
	61.50 m³ @ Rs. 5239.08/cum					Rs.	322203.42
(9)	Providing & using centering, shuttering, strutting properly etc,						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	and removal of form work for vertical surface such as walls of any thickness including attached pilasters, buttress, plinth and string. Course. cost of all materials, labour, complete as per specifications						
		total Qty				145.00 m²	
		Already paid Qty				-Nil-	
		Yet to be paid Qty				145.00 m²	
	Qty B/F from page no	193182					
		145.00 m²				@ Rs. 244.08/sqm	Rs. 35391.60
10	providing T.M.T steel reinforced for R.C.C work including straightening cutting bending, hooking, placing in position lapping c/s						

M.A.R.

Meas

Serial No.....

Name of work.....Fro

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number
1	2	3
	welding value rqrd ty	
	the adjoining members value	
	hooks at coastg. shall	
	labour from of welding	
	Already	
	Already	
	Yet	
	Qty B/F from P. no 193183	

BOOK

Dimensions: Breadth 5	Dimensions: Depth 6	Contents 7	Reference to last Measurement 8
Vertical surface such as wall,			
lid, plastering, buttress, plinth			
masonry, labour, complete			
		145.00 sqm	
ed qty		— Nil —	
qty		145.00 sqm	
MB.			
Rft. 244.08/sqm		Rs. 35391.60	
rework for R.C.C work including			
ing, placing in position complete as per H			

M.A.R. 57 (Rule 116)

Measurement Book No. A/11 193136

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	welding where required type with binding wire and ancillary to the adjoining members where necessary complete as per design (Staff, Labour, Hire of welding complete as per specification.					wire and ancillary to as per design (Staff, Labour) cost of material,	
	Already paid qty				—	30.00 sqft	
	Already paid qty				—	— Nil —	
	Qty to be paid qty					30.00 sqft	
	Qty B/F from P. No 193183		Thro MB.		23.11 sqft		
					7323.48	Rs	219704.40

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(11)	providing, laying aggregate to wet mix plant carriage of mixed material, on wall prepared surface, and rolling to achieve specification	spreading and compacting graded aggregate to wet mix macadam specification including necessary watering and rolling complete as per the desired density					
		total qty				1269.20 m³	
		Already paid qty				999.34 m³	
		Yet to be paid qty				269.86 m³	
	qty B/F from P. No. 193/84 this MB =					269.86 m³	
		qty. 1059.48/cm				Rs.	2859111.27

M.A.R

Mea

Serial No.....

Name of work.....Fro

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number
1	2	3
(12)	providing and applying prepared surface, of surfac. ed spraying pro using mechanical mean	
	total q	
	Already	
	yet	
	qty B/F from P. No =	193/8
		1208

OK

th	Depth 6	Contents 7	Reference to last Measurement 8
		...capacity graded ... specification including ... ab one. in mechanical ... of tipper to site, ... capacity ... ...ity complete as ...	
		1269.20 m³	
		999.34 m³	
		269.86 m³	
=		269.86 m³	
		...em	₹. 285911.27

M.A.R. 57 (Rule 116)

Measurement Book No. A/11 193137

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
(12)	providing and applying prepared surface of ... surface with spraying prime ... using mechanical ...	prime coat with bitumen emulsion on ... grade ... @ the rate of 0.6 kg/ sqm ... complete as per specification					
		total qty				6204.70 m²	
		Already paid qty				4996.70	
		yet to be paid qty				1208.00 m²	
	qty B/F from f. No = 193184/2 Page MB	1208.00 m²					₹. 47825.12

₹. 39.64

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(13)	providing and laying semi dense bituminous, concrete using hot mix plant of hot batch type HMP, providing an output of 75 tons per hour and conforming to aggregate gradation, mixing with bitumen binder @ 4.5 to 5% by weight of mix and rolling and tamping roller to achieve desired compaction as per MORTH specification in all respects as per specification 25-30mm compacted thickness with 5% bitumen 80/100 (grading-II).						
		1 —	30.0 —	$\frac{5.1+6.0}{2}$	0.025 =	4.12	
		1 —	30.0	$\frac{6.0+6.5}{2}$	0.025 =	4.68	
		1 —	30.0	$\frac{6.5+6.2}{2}$	0.025 =	4.76	

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Me

Serial No.....

Name of work.....F

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	
		Number
1	2	3
		1 —
		1 —
		1 —
		1 —
		1 —
		1 —

BOOK

ns		Contents	Reference to last Measurement
readth 5	Depth 6	7	8
...e bituminous, coarse grain ... type HMP, Providing an ... and crushed aggregate of ... bitumen binder @ 4.5 to ... tandem roller to achieve ... th specification in all respects ... compacted thickness ... (11) -			
...+6.50 / 2	0.025	= 4.12	
...+6.50 / 2	0.025	= 4.68	
...5+6.30 / 2	0.025	= 4.76	

M.A.R. 57 (Rule 116)

Measurement Book No. A/11

193138

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1 —	11.30	$\frac{6.20+6.50}{2}$	0.025	= 1.79	
		1 —	30.10	$\frac{5.10+5.40}{2}$	0.025	= 3.90	
		1 —	30.10	$\frac{5.40+5.60}{2}$	0.025	= 4.12	
		1 —	21.00	$\frac{5.60+5.60}{2}$	0.025	= 2.94	
		1 —	30.10	$\frac{5.10+5.50}{2}$	0.025	= 3.93	
		1 —	13.10	$\frac{5.50+5.50}{2}$	0.025	= 1.78	
						32.02 m³	
					Amit	30.20 m³	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		Total qty				155.12 m³	
		Already Paid qty				124.92 m³	
		yet to be paid qty				30.20 m³	
						Rs. 266635.80	
	C&TC 28/8/2023						
(14)	Road marking with thermoplastic compound with reflectorising glass beads on bituminous surface :- providing & laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gm. per sqm. comprising of 2.5 mm thick extruded strip from strake of width, complete as per specification.						

M.A.R. 57

Measure

Serial No.....

Name of work.....From....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Le
1	2	3	
		Total qty	
		Already	
		yet to be paid qty	
		2 x 2	1
		2 x 2	8

NT BOOK

ensions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
		155.12 m³	
ale		124.92 m³	
paid ale	—	30.20 m³	
8829.4/cum		Rs. 266635.80	
plied Thermoplastic Compound with reening surface :- prepdy. of stic Compound 2-5 mm thick dy ab 250 gm. Pr Sqm. Coa d base from strabe of MORTH MORT&H specifica			

M.A.R. 57 (Rule 116)

Measurement Book No. A/11 193139

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
		Total qty				250.40 m²	
		Already paid qty			—	208.00 m²	
	yet to be paid qty					42.40 m²	
		2 x 2	101.30	x 0.10	=	40.52	
		2 x 2	81.0	x 0.10	=	32.40	
						72.92 m²	
				Limit to		42.40 m²	
			qty	429.84/Sqm		Rs. 18225.22	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(15)	providing and fixing of road stud. 100x100 mm dia cast of aluminium resistant to Corrosion effects of salt and grit tetrap metal lens reflectors. installed, in concrete or asphaltic. Secure by drilling hole. 30mm upto a depth of 60. mm & bedded in a suitable bitumin grade or epoxy mortar. all as fr- IS: 877 Part 4: 1973 complete as fr specification						
	Total qty					50.0 Nos	
	Already paid qty					35.	
	Yet to be paid qty					15.0 Nos	
	∴ 15	-	-	-		15.0	
						15.0 Nos	

M.A.R.

Meas

Serial No.....

Name of work.....Fro

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number
1	2	3
		15.0
(16)	providing and fixing as fr IRC 67 m vide clause 800. 1.3 fix which supported on a w 75mm x 6mm flat proper designed fou

OK

Depth 6	Contents 7	Reference to last Measurement 8
100x100 mm	deg - cast in	
sheets of	sand and gab	
-talled, in cavity or		
ade. 30mm upto a depth of		
sitrium grade or epoxy		
Para 4: 1973 complete as		
	50.0 sq	
	35	
old	15.0 sq	
	15.0	
	15.0 sq	

M.A.R. 57 (Rule 116)

Measurement Book

No. A/11 193140

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		15.0 nos				Rs. 6447.60	
(16)	providing and fixing of retro reflectorised cautionary mandatory sign as per IRC 67 made of high intensity grade sheeting vide clause 800. 1.3 fixed over aluminium sheeting 1.5 mm thick supported on a mild steel angle iron post 75mm x 75mm x 6mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	45mm thick x 60 cm. approved drawg complete as per specification		60 cm below ground level as per				
						12	
		Total qty				9.00	
		Already paid qty				9.0	
		Yet to be paid qty				3.0	
		3.0	-	-	-	3.0	
						3.0 MS	
				Rs. 3205.44		Rs. 9616.32	
(17)	Loading and unloading of stone boulder / stone aggregate / sand / boulder / mcum. placing. upto all						

M.A.R. 5
Measu

Serial No.....

Name of work.....From

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number
1	2	3
	loading. paid loading	
	lump for return. trip	
	return. trip complete	
	Total qty	
	Already Pa	
	Yet to	
	qty	

Depth 6	Contents 7	Reference to last Measurement 8
	grand lundas Rs	
	12	
	9.00	
	3.0	
	3.0	
	3.0	
	3.0 Ms	
05.44	Rs. 9616.32	
	Stone boulder /	
	placing with al	

M.A.R. 57 (Rule 116)

Measurement Book

No. A/11 193141

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Loading paid loading cost track and loads during turn for return trip excluding time for haulage and return trip complete as per specification						
					Total qty	1934.27 m³	
					Already paid qty	1557.73 m³	
					Yet to be paid qty	416.54 m³	
					qty vide Item no(1+4)	= 408.20 m³	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
						408.20 m³	
	Road side debris	1 ×	5.60	2.00	0.60 =	6.72	
		1 ×	4.10	1.40	0.40 =	2.29	
						417.21 m³	
					Less A to	416.54 m³	
						Rs. 30286.62	
						total Rs. 1635780.10	
					Add 11% KSDL Charges Rs.	179935.92	
					Grand total Rs	1815716.02	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಕೊಡಿಗೇಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಯಲಹಂಕ ವಲಯ/ಬಿ.ಬಿ.ಎಂ.ಪಿ
ಬೆಂಗಳೂರು - 560092

28/8/13

Certificate :

(i) Certified that the work is done satisfactorily

(ii) Certify that the all the debris from been cleared

M.A.R. 5

Measur

Serial No.....

Name of work.....From...

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Le
1	2	3	
	(iii) Certified that the		
	limit.		
			Sketch
	DDW		
	N 007 28/8/13		
	Concrete Road		
	ASPhalt Road		
	DDW		
	N 007 28/8/13		

OOK

adth 5	Depth 6	Contents 7	Reference to last Measurement 8
		408.20 m	
	0.60 =	6.72	
	0.40 =	2.29	
		417.21 m³	
		416.54 m³	
		Rs. 30286.62	
		total Rs. 1635781.10	
		1.KSEDL Charges Rs. 179935.92	
		Grand total Rs 1815717.02	

M.A.R. 57 (Rule 116)

Measurement Book No. A/11 193142

Serial No.....

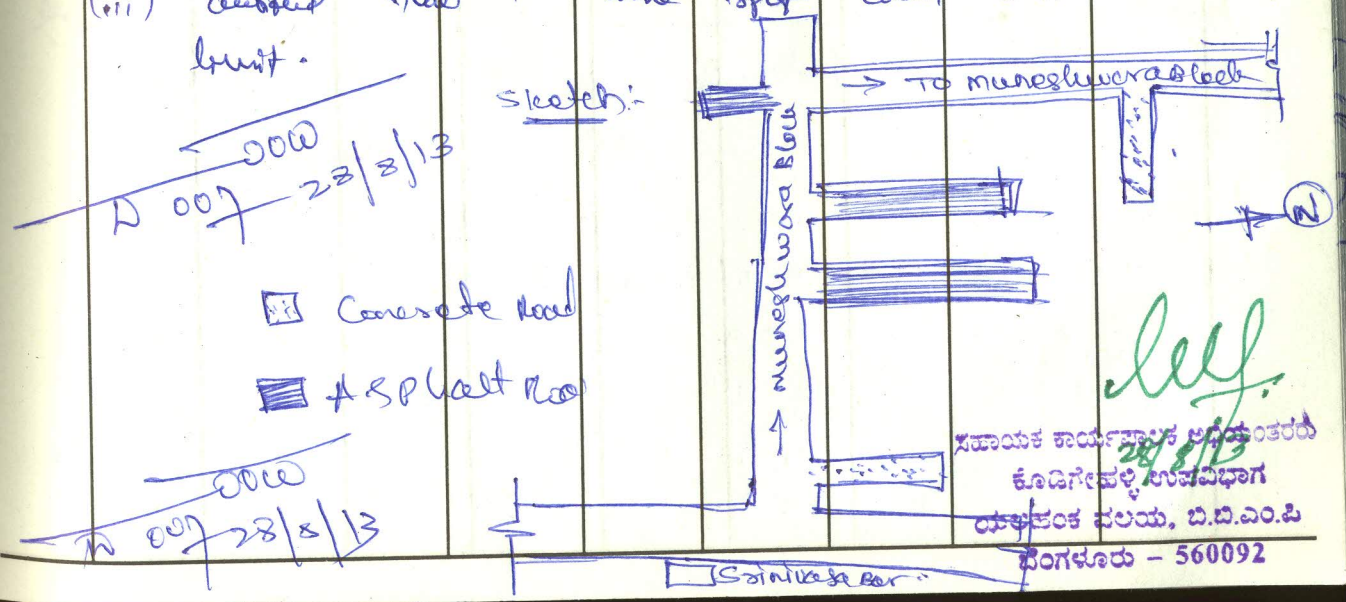
Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	(iii) Centerline of the road to the south spot level to the south limit.						

Sketch:-



ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಕೂಡಿಗೇಪಳ್ಳಿ ಉಪವಿಭಾಗ
ಯಶವಂತ ಪುರ, ಬಿ.ಬಿ.ಎಂ.ಪಿ
ಬೆಂಗಳೂರು - 560092